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### NOTICE OF ALLOWANCE AND FEE(S) DUE

24273

7500

02/24/2010

MOTOROLA, INC 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196

EXAMINER				
COLBERT, ELLA				
ART UNIT	PAPER NUMBER			
3694				

DATE MAILED: 02/24/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,388	03/24/2004	Theodore Rappaport	WV00015 CP3	3327

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING RASTER IMAGES TO CREATE A TRANSPORTABLE BUILDING DATABASE FOR

COMMUNICATIONS NETWORK ENGINEERING AND MANAGEMENT

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	YES	\$755	\$300	\$0	\$1055	05/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte anintenance fee notificate	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification of specifying a new co.	of ma	intenance fees wondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corres rate "I	pondence address as FEE ADDRESS" for
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SCHAUMBURG	G, IL 60196								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CON	FIRMATION NO.
10/807,388	03/24/2004	•	Theodore Rappapor	t		7	WV00015 CP3		3327
		EM FOR USING RAST. ING AND MANAGEME		ATE	A TRANSPORT	ABLE	BUILDING DATABA	ASE F	OR
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ I	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055		05/24/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
COLBER	T, ELLA	3694	707-101000						
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	TO BE PRINTED ON T fied below, no assignee letion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (Cl	e pat an as	ent. If an assigne signment. and STATE OR C	OUNT	RY)		_
lease check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	<b>□</b> I	ndividual 🖵 Co	rporati	on or other private gro	up ent	ity Government
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OTE: The Issue Fee and	d Publication Fee (if requ	nired) will not be accepted tes Patent and Trademark	d from anyone other tha						
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10/807,388	03/24/2004	Theodore Rappaport	WV00015 CP3	3327	
24273 7	590 02/24/2010	EXAMINER			
MOTOROLA, I	NC	COLBER	T, ELLA		
1303 EAST ALGO	ONQUIN ROAD		ART UNIT	PAPER NUMBER	
IL01/3RD SCHAUMBURG, IL 60196			3694 DATE MAILED: 02/24/201	0	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 535 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 535 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/807,388	RAPPAPORT ET AI			
Notice of Allowability	Examiner	Art Unit			
	Ella Colbert	3694			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com GHTS. This application is and MPEP 1308.	in this application. If not include munication will be mailed in due	ed course. <b>THIS</b>		
2. ☑ The allowed claim(s) is/are <u>13-30</u> .					
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol>	been received. been received in Applica	tion No	tion from the		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath	or declaration is deficient.			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) I including changes required by the Notice of Draftspers	•	ew ( PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			Note the		
Attachment(s)	5 🗖 Notice of	Informal Patent Application			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<u> </u>	Summary (PTO-413),			
	Paper N	o./Mail Date			
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. ∐ Examinei	's Amendment/Comment			
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	<ul> <li>□ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> <li>8. ☑ Examiner's Statement of Reasons for Allowance</li> </ul>				
	9.	·			

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#### **DETAILED ACTION**

1. Claims 13-30are pending. Claims 13-15 have been amended in this communication filed 11/05/09 entered as Response After Non-Final Action and the Supplemental Amendment filed 1/28/10 to correct the title of the invention.

- 2. The claim Objection to claim 14 has been overcome by Applicants' amendment to claim 14 and is hereby withdrawn.
- 3. The 35 USC 112, Second Paragraph Rejections for claims 13, 14, and 15 have been overcome by Applicants' amendment to the claims and are hereby withdrawn.

## Allowable Subject Matter

Claims 13-30 are allowed and renumbered 1-18.

The following is an examiner's statement of reasons for allowance: The closest prior art (US 5,949,988) Feisullin discloses a method for creating, formatting or editing a database and accepting a raster image representing a physical environment. Feisullin did not disclose notifying a user of the results of the verification of the sufficiency and using the resulting verified set of data to generate at least one formatted drawing or a set of formatted data including one or more objects for use in and being transportable to a communications engineering or network management application.

Biddiscombe, J., Nix, A., Murphy, S., and Lister, D.; "The technical working party on mobile and terrestrial propagation format for a 3D geographical dataset" disclosed building 3D radio planning tools and a high-resolution database. Biddiscombe, J., Nix, A., Murphy, S., and Lister, D.; "The technical working party on mobile and terrestrial propagation format for a 3D geographical dataset" did not disclose notifying a user of

Application/Control Number: 10/807,388

Art Unit: 3696

the results of the verification of the sufficiency and using the resulting verified set of data to generate at least one formatted drawing or a set of formatted data including one or more objects for use in and being transportable to a communications engineering or network management application.

Page 3

Menezes, V.M., Paula Filho, W.P., Oliveria, A.A., and Lima Filho, N.C.; "A CAD system for telecommunications engineering in a GIS environment" discloses engineering and graphical data retrieved from and extended relational database.

Menezes, V.M., Paula Filho, W.P., Oliveria, A.A., and Lima Filho, N.C.; "A CAD system for telecommunications engineering in a GIS environment" did not disclose notifying a user of the results of the verification of the sufficiency and using the resulting verified set of data to generate at least one formatted drawing or a set of formatted data including one or more objects for use in and being transportable to a communications engineering or network management application.

Goodhead, H.D.; "The application of radio propagation prediction to spectrum management and radio network design in developing countries" discloses an online digital terrain database combined with accurate prediction models available in an integrated environment. Goodhead, H.D.; "The application of radio propagation prediction to spectrum management and radio network design in developing countries" did not disclose notifying a user of the results of the verification of the sufficiency and using the resulting verified set of data to generate at least one formatted drawing or a set of formatted data including one or more objects for use in and being transportable to a communications engineering or network management application.

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### **Other Relevant Prior Art**

Manfred Lebherz, Werner Wiesbeck, and Wolfgang Krank; "A Versatil Wave Propagation Model for the VHF/UHF Range Considering Three Dimensional Terrain".

Yiu F. Ko, Warren R. Jones, Rupert C. Lloyd, and Robert W.A. Dobson; "A Comparison of 3D Computer Propagation Prediction with GSM Signal Measurements".

Hoffman et al. (US 6,446,030) and Douglas et al (US 5,668,736).

An extensive search was performed and no better prior art was found.

### **Other Relevant Prior Art**

Bator et al. (US 6,575,362); Barzilai et al. (US 6,012,045); and Cotton et al. (US 6,076,074).

For these reasons claim 13 is deemed allowable over the prior art of record and claims 14-30 are allowed by dependency.

It appears that the instant invention is beyond the skill of one of ordinary art.

Accordingly the invention would NOT have been obvious because one of ordinary skill could not have been expected to achieve it. NOR would they have been able to predict the results, and as such, they would have not capability of expecting success.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ella Colbert whose telephone number is 571-272-6741. The examiner can normally be reached on Monday, Tuesday, and Thursday, 5:30AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dixon Thomas can be reached on 571-272-6803. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ella Colbert/ Primary Examiner, Art Unit 3694

February 02, 2010